SG-2000 ADSP² *Transceiver*

Cat. # 04-xx

Your HF Solution

SUPERIOR HF

SG-2000 *Now with* ADSP²!

The power packed **SG-2000 with ADSP²**: A rugged HF transceiver with 1.8 to 30 MHz coverage and 150W PEP output. Type accepted for Marine SSB, the SG-2000 with ADSP² is also a fully capable amateur transceiver with SSB, CW, and AM operating modes. It has a time-proven, reliable design, with a removable operating head which is perfect for remote operation. A built-in RS232 interface allows remote control of the transceiver for ALE or remote operations. The transceiver supports all current HF Digital modes when using an external modem. New features of the SG-2000 with ADSP² include second generation ADSP noise reduction and bandpass filtration, plus a switch selectable alarm generator for emergency operation.

Specs: 150 Watts PEP • 1.8 – 30 MHz • 100 Channels field programmable – scan by channel or frequency • 644 Channels factory programmed • 100 Scan channels in 10 groups • 0.8A Receive • 16A Transmit • 15L x 10W x 4.8H • 12 Lbs.

SMART POWER

SG-500 and SG-235

SG-500 *Power Amplifier*

Cat. # 54-96

For 500 Watt operation in your base station or mobile, the **SG-500 SmartPowerCube**™ provides maximum reliability and unattended operation. The SG-500 is microprocessor controlled. It automatically monitors your power needs and selects the correct broadband filter. It also has the most advanced self-protection on the market. For maximum power, under the most demanding conditions, the SmartPowerCube is the professional's choice.

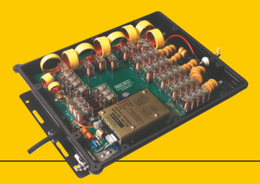
Specs: 1.8 – 24 MHz • 500 Watt PEP SSB, 500 Watt CW with fan • Automatic band switching • 13.2L x 10.8W x 6.1H • 21 Lbs.

ANY TIME. ANY PLACE. WE BUILD EQUIPMENT FOR EXACTLY WHAT YOU DO.

SG-235 *Smartuner*

Cat. # 54-15

The **SG-235 Smartuner** is the perfect mate to the SG-500 power amplifier. It provides ideal, unattended coupling to your HF transceiver from 1.8 to 30 MHz and from 3 to 500 Watts output power. With over 1/2 million tuning combinations, the SG-235's powerful pi-L network matches nearly any antenna. A built-in microprocessor finds the best match and recalls it in milliseconds when retuning from memory. The combination of the SG-235 and the SG-500 gives you the freedom to get on the air in any base or mobile situation.



Specs: 1.8 – 30 MHz • 3 – 500W • Sealed Waterproof ABS Enclosure • 16.2L x 12.2W x 3.2H • 8 Lbs.

WE HAVE YOUR HF SOLUTION. CALL TODAY.

SGC Building, 13737 SE 26th Street, Bellevue, Washington 98005 USA

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HF

We are the choice of leading corporations, governments, relief organizations, mariners, aviators, hobbyists, explorers and scientists... all over the world.

Your HF Solution

TRUST OUR ENGINEERING. VALUE OUR EXPERIENCE.

SG-2020 ADSP² *Transceiver*

Cat. # 05-04

ALL REASONS ALL SEASONS

This is the transceiver you want for base, backpack or business trips – the ultimate portable transceiver. Operate SSB or CW from wherever you are. The **SG-2020** draws only 400mA receive and less than 3 Amps when transmitting at 20 Watts. Output power is adjustable for 0 – 20W PEP. VOGAD baseband RF speech processing and RF clipping provide plenty of talk-power. No confusing menus and two-step operation: select your frequency and transmit. Available with fully integrated ADSP² for superior sound clarity, the SG-2020 is pure, simple HF at its best.

Specs: Transceiver: 1.8 – 29.7MHz • 0 – 20 Watts PEP • <0.8mA Receive • <3A Transmitting Current • Built-in Iambic B Keyer 5 – 50 wpm • 7.3L x 6.2W x 2.8H • 4.4 Lbs. • ADSP²: 13dB and 26dB Noise Reduction

SINCE 1971, SGC HAS BEEN A PIONEER OF HF DESIGN AND DEVELOPMENT.

ADSP² *Boards*

GOT NOISE? GET ADSP²!

Cat. # 70-11

Cat. # 70-12

ADSP² is an affordable solution that delivers top of the line noise reduction for ANY transceiver. Choose an **ADSP² speaker** or a Hi or Low power PCB. **ADSP² boards** integrate 2 levels of noise reduction and 3 proprietary bandpass filters into your transceiver or receiver for superior sound clarity. The ADSP² speaker provides 2 levels of noise reduction with one-click operation. Switch equipment and locations easily with this stand alone ADSP² unit.

ADSP² *Speaker*

Cat. # 70-14

Specs: 13dB and 26dB selectable noise reduction • Low Power Board – 80mA Consumption • Hi Power Board and Speaker: 110 – 500mA Consumption • Hi and Low Power Boards – 100, 500, and 1500 Hz bandpass filters

NEED A MATCH?

Smartuners™ deliver greater impedance matching, more tuning steps and more antenna choices than any other antenna coupler on the market. For frequency agility and precision tuning, choose a Smartuner. They are independently intelligent, matching ANY HF transceiver and ANY antenna. Smartuners are microprocessor controlled; analyzing the conditions of your antenna and automatically adjusting for the best match. They also remember each match, cutting retuning time to under 10ms when changing frequencies. Smartuners are available for power levels from 1.5 to 500 Watts and frequency ranges from 1.0 to 60 MHz. They provide all purpose tuning ideal for base, mobile, portable, marine or aviation. Any budget, any installation... **Your choice for antenna tuning should be an SGC Smartuner.**

Call us to find the Smartuner that meets your needs.

Smart Choice! Smartuner!

SMARTUNER SPECIFICATIONS

Model #	Frequency Range	Power Rating	Waterproof Enclosure	Base	Mobile	Portable	Marine/ Aviation	Size inches	Weight pounds
SG-230	1.6-30Mhz	3-200W	Yes	✔	✔		✔	16.2L x 12.2W x 3.2H	8
SG-231	1.0-60Mhz	3-100W	Yes	✔	✔		✔	11.5L x 10.2W x 3.2H	3.8
SG-237	1.8-60Mhz	3-100W	Yes	✔	✔	✔	✔	9L x 7W x 1.5H	2
SG-239	1.8-30Mhz	1.5-200W	No	✔		✔		7.5L x 6W x 1.9H	2
SG-211	1.8-60Mhz	60W	No					7.25L x 4.75W x 1.25H	1
SG-230i	1.8-30Mhz	250W	Yes					16L x 12W x 3.75H	8.5

SG-230

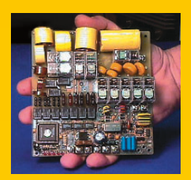
Cat. # 54-14

The Original SMARTUNER

SG-237

General Purpose SMARTUNER

Cat. # 54-18



Cat. # 54-19

Cat. # 54-20

SG-231

Cat. # 54-17

Precision SMARTUNER

SG-239

Cat. # 54-22

Budget SMARTUNER

ANTENNA COMMAND CENTER

MAC-200

Master Antenna Controller

Cat. # 54-25

Select the right antenna, for the right band, at the right time with the **MAC-200**. The Master Antenna Controller operates as your base station control center, eliminating complicated switching and tuning. With two built in computers, the MAC-200 can select and tune up to 5 antennas automatically, quickly and accurately. Built in memories fine tune to minimum SWR with any balanced or unbalanced antenna. It instantly recalls settings from memory, allowing retuning in less than 10ms. Monitor your power and SWR with convenient meters on the front panel. Using SGC's well known Smartuner™ technology, the MAC-200 is the perfect choice for anyone using multiple antennas in a base station system.

Specs: 1.8 to 60 Mhz • 1.5 to 200W • 168 memories • Pi configuration • 230 mA average current • < 2 Second random set time • 6.752W x 32H x 10.252L

ANTENNA SYSTEMS

STEALTH Kit

Delta Loop System

Cat. # 54-23

SGC's STEALTH Kit is the ALL-IN-ONE convenient antenna solution:

- Erect an emergency field operation in minutes.
- The perfect GRAB-AND-GO antenna system for overnight, or overseas.
- Configure an undetectable loop antenna in restricted areas.

The Smart Tuning Emergency Antenna Loop Tactical HF Kit is everything you need to get on the air FAST!

Specs: Kit includes the SG-237 Smartuner, 80 feet high quality 18 gauge flexible wire, 30 feet nylon rope, 6 mounting clips, 12 reusable tie wraps, SG-237 and STEALTH Kit manuals.

QMS

Quick Mount System

Cat. # 55-50

The QMS is a low profile mobile system. Achieve increased radiation and efficient tuning with its built-in Smartuner™ system. The QMS mounts on any vehicle, with a patented strap and buckle system, and with no holes or damage to the vehicle. Installation can be permanent or temporary and takes just 15 minutes. A lightweight mobile antenna such as the **SG-303** or **SG-307** provides a wide frequency range and easy tuning.

Visit our website for more information on our full line of antenna solutions and HF accessories.

WE PROVIDE QUALITY, RUGGED, RELIABLE EQUIPMENT AT AN AFFORDABLE PRICE • QUALITY CUSTOMER SERVICE THAT IS FRIENDLY AND EFFICIENT

SG-230i

Cat. # 54-24

Industrial Strength SMARTUNER *New*

The **SG-230i** is SGC's industrial strength automatic antenna coupler. The unit is based on the reliable design of the SG-230, but features 250W power capability, *antenna surge protection* and *automatic antenna grounding* when the coupler is not in use. Enclosed in a fully waterproof, reinforced case for commercial and military installations.

SG-211

Cat. # 54-26

Zero Power Consumption mini SMARTUNER

Just Introduced

The **SG-211**, SGC's newest Smartuner provides the ZERO power consumption features you've wanted. It's a compact, lightweight unit with no external power required, yet able to tune a 10:1 mismatch or worse. The unit features a naturally balanced output, capable of tuning most antennas. One external LED indicates tune, no tune and low battery. The SG-211 is the perfect companion for traveling or backpacking.

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